

# 155

## REPAIR MANUAL

### ● BODY



GROUP 40 - ELECTRICAL SYSTEM



GROUP 43 - INSTRUMENT PANEL AND  
ELECTRONIC INSTRUMENTS



GROUP 49 - BODYWORK



GROUP 55 - DOORS



GROUP 56 - BOOT AND BONNET



GROUP 66 - INTERIOR TRIM



GROUP 75 - EXTERNAL TRIM



GROUP 80 - HEATING AND VENTILATION



Refer to the corresponding Group in the "155 - REPAIR MANUAL" -  
PA4655D1000000



**GROUP 40**

**ELECTRICAL SYSTEM**

**INDEX**

- Longitudinal and transversal accelerometer ..... 40-2
- Switch on clutch pedal ..... 40-2

For all parts not given here, refer to the corresponding Group in publication N° PA4655D1000000

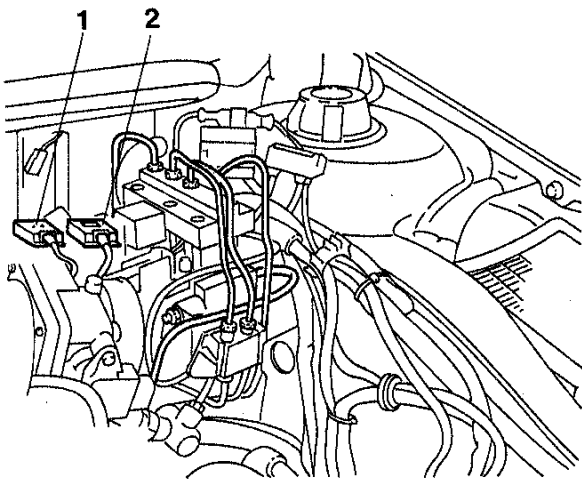


**LONGITUDINAL AND TRANSVERSAL  
ACCELEROMETER**

**Removal**

– The two accelerometers are located near the ABS control unit.

1. Disconnect the longitudinal accelerometer.
2. Disconnect the transversal accelerometer.



**Refitting**

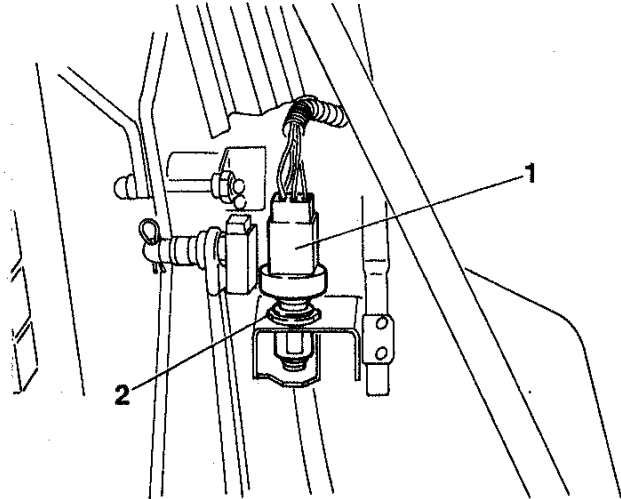


To refit, reverse the procedure followed for removal.

**SWITCH ON CLUTCH PEDAL**

**Removal**

1. Disconnect the electrical connector.
2. Rotate the switch by approximately 90° anti-clockwise and then remove it by pulling it upwards.



**Refitting**



To refit, reverse the procedure followed for removal.



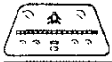
**GROUP 43**

**ELECTRONIC PANEL AND  
INSTRUMENTS**

**INDEX**

- ELECTRONIC PANEL ..... 43-2
  - Warning lights and services ..... 43-3
- REAR POWER WINDOWS CONTROL  
UNIT RELAY ..... 43-4
  - Removal and refitting ..... 43-4
- CONTROLLED DAMPING SUSPENSION  
CONTROL UNIT ..... 43-4
  - Removal and refitting ..... 43-4

For all parts not given here, refer to the corresponding  
Group in publication N° PA4655D1000000

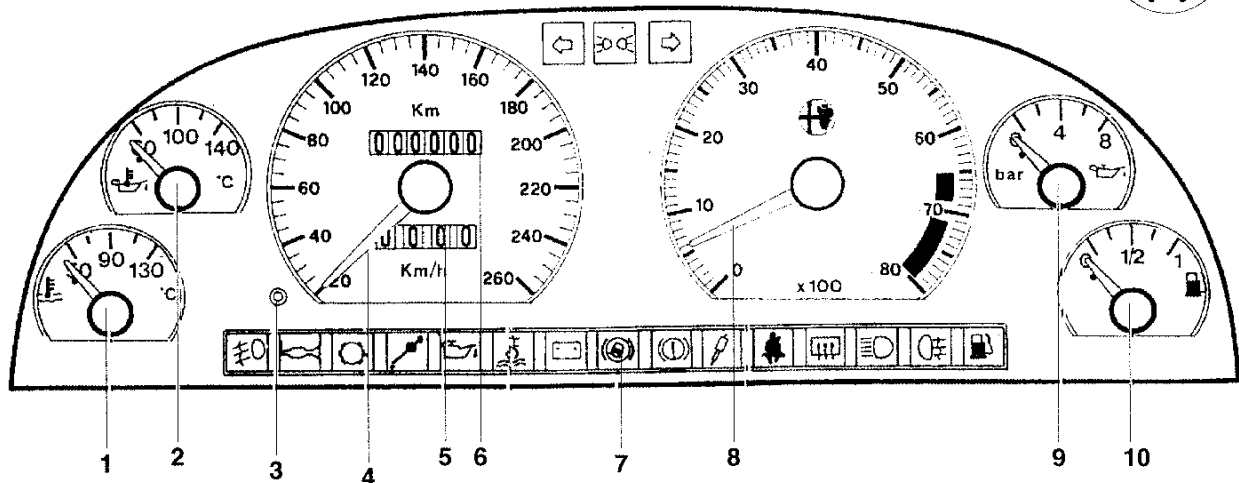


### ELECTRONIC INSTRUMENT CLUSTER

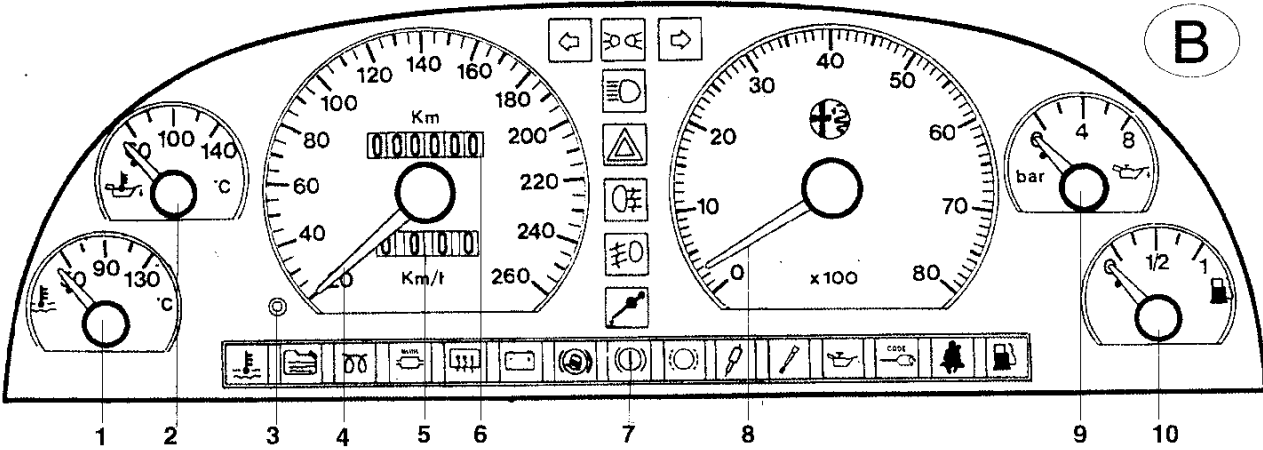
The instrument cluster installed on the 155 Q4 has sporting features with "depth effect" instruments which are clearly legible under all circumstances.

Up to chassis no. ... instrument cluster (A) is installed.  
From chassis no. ... it is replaced by the '95 Version cluster (B).

A



B



- |                                     |   |
|-------------------------------------|---|
| 1. Engine coolant temperature gauge | 6. Mileage recorder                                   |
| 2. Oil temperature gauge            | 7. Services warning lights (see details on next page) |
| 3. Trip meter reset                 | 8. Rev counter  |
| 4. Speedometer                      | 9. Engine oil pressure gauge                          |
| 5. Trip meter                       | 10. Fuel level gauge                                  |



**WARNING LIGHTS(\*)**



Left-hand direction indicator



Parking lights and low beams



Right-hand direction indicator



High beams



Hazard warning lights



Rear fog guards



Fog lamps



Low engine oil level



High engine coolant fluid temperature



Water in fuel oil filter



Glow plugs



Catalytic silencer temperature



Rearscreen heating



Generator warning light



ABS anti-lock system



Low brake fluid level and handbrake engaged



Worn brake pads



Electronic suspension control



Injection system



Low engine oil pressure



ALFA ROMEO CODE



Seat belts



Fuel reserve



High supercharging pressure

**(\*) NB: All the warning lights shown are present on the instrument cluster, but some of them may be disconnected depending on the version, engine and trim level.**

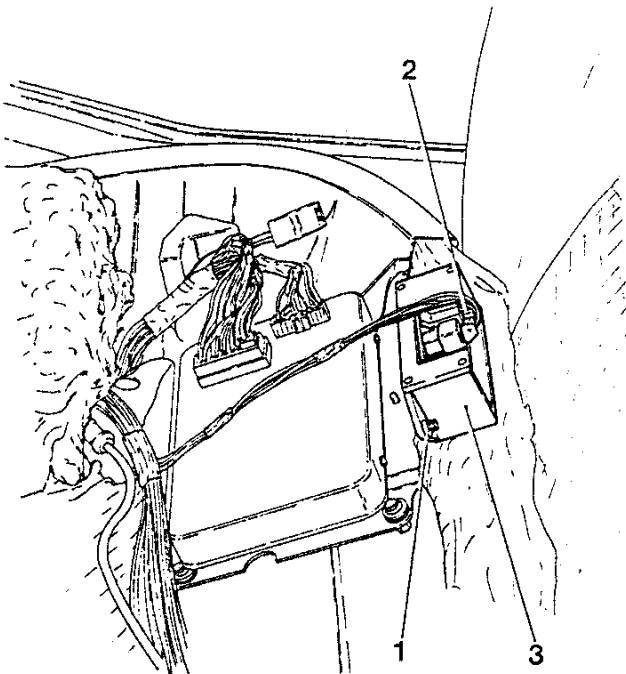


## REAR POWER WINDOW CONTROL UNIT RELAY

### REMOVAL AND REFITTING

#### Removal

- The rear power window control unit relay is located under the rear seat on the controlled damping suspension control unit support.
1. Unscrew the nuts securing the relay to the control unit support.
  2. Disconnect the electrical connections.
  3. Remove the relay.



#### Refitting



To refit, reverse the procedure followed for removal.

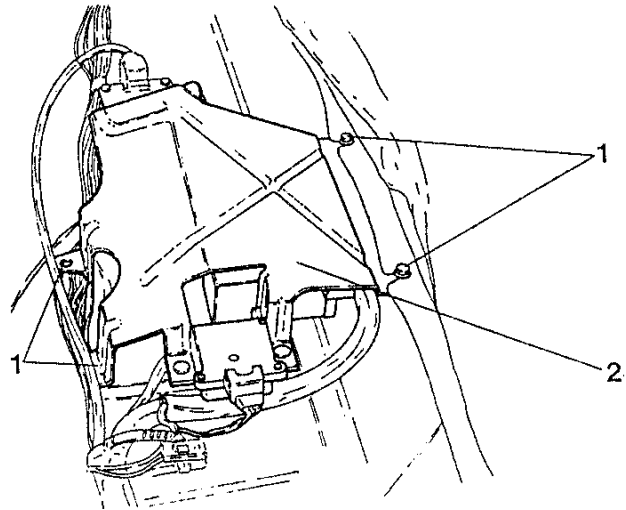
PA4736D14x4000

## CONTROLLED DAMPING SUSPENSION CONTROL UNIT

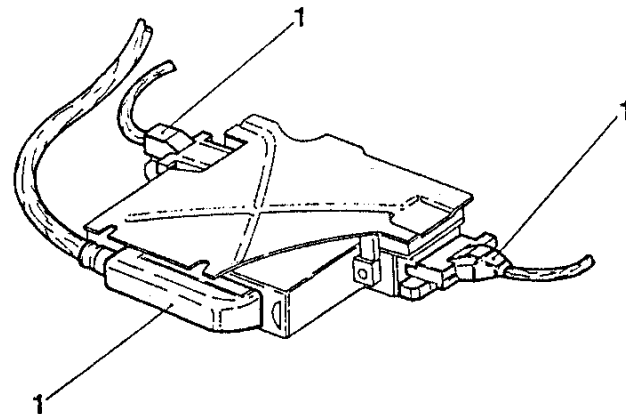
### REMOVAL AND REFITTING

#### Removal

- The control unit is located under the rear seat.
1. Loosen the screws securing the control unit support to the chassis.
  2. Remove the control unit and support.



1. Disconnect the power supply connectors from the control unit.



#### Refitting



To refit, reverse the procedure followed for removal.

12 - 1991



**SERVICES WARNING LIGHTS**



Left-hand direction indicator



Sidelights and dipped-beam headlights



Right-hand direction indicator



Main-beam headlights



Hazard warning lights



Rear foglights



Front foglights



Generator warning light



ABS anti-wheel lock system



Brake fluid low level or handbrake "on" warning light



Brake pads



Controlled damping suspension



Four-wheel drive engaged



Safety belts



Heated rear windscreen



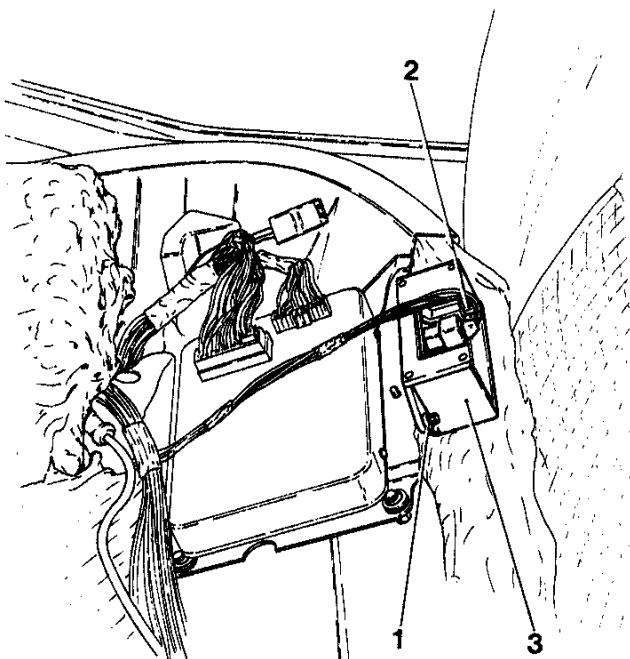


## REAR POWER WINDOW CONTROL UNIT RELAY

### REMOVAL AND REFITTING

#### Removal

- The rear power window control unit relay is located under the rear seat on the controlled damping suspension control unit support.
1. Unscrew the nuts securing the relay to the control unit support.
  2. Disconnect the electrical connections.
  3. Remove the relay.



#### Refitting



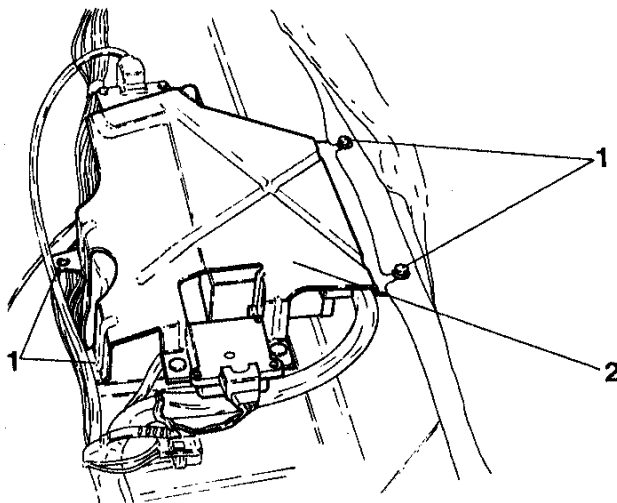
To refit, reverse the procedure followed for removal.

## CONTROLLED DAMPING SUSPENSION CONTROL UNIT

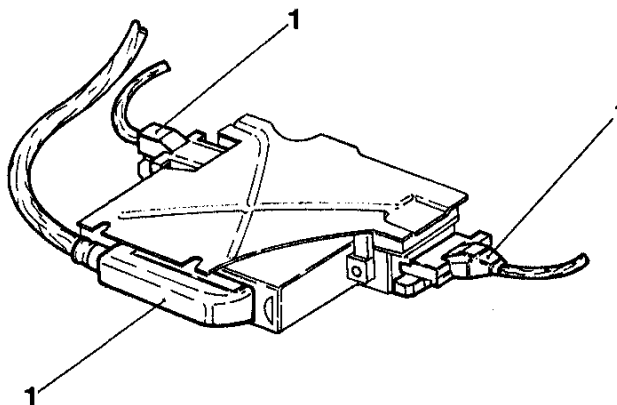
### REMOVAL AND REFITTING

#### Removal

- The control unit is located under the rear seat.
1. Loosen the screws securing the control unit support to the chassis.
  2. Remove the control unit and support.



1. Disconnect the power supply connectors from the control unit.



#### Refitting



To refit, reverse the procedure followed for removal.

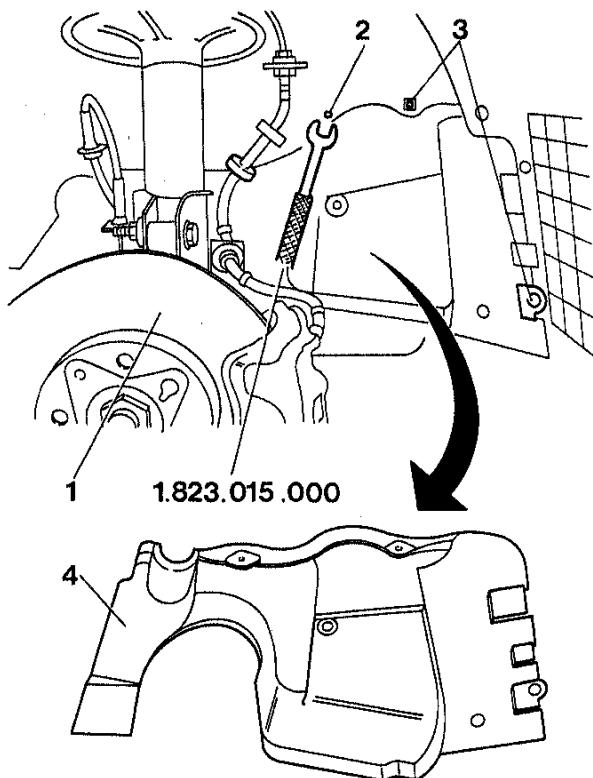
**GROUP 80****HEATING-VENTILATION****INDEX**

- Compressor ..... 80-2
- Condenser ..... 80-4
- Heating-ventilation system hoses . 80-7

For all parts not given here, refer to the corresponding  
Group in publication N° PA4655D1000000

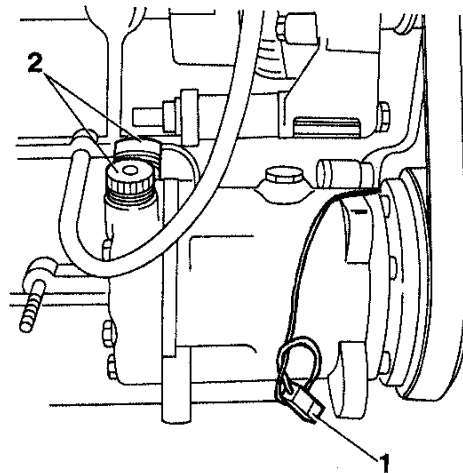
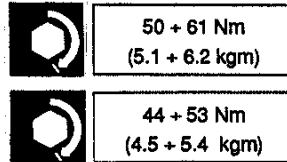
**COMPRESSOR****Removal**

1. When vehicle is on a lift, remove the front right-hand wheel.
2. Using tool No. 1.823.015.000 remove the plastic button securing the panel between the engine and wheel compartments.
3. Remove the two screws.
4. Remove the panel.



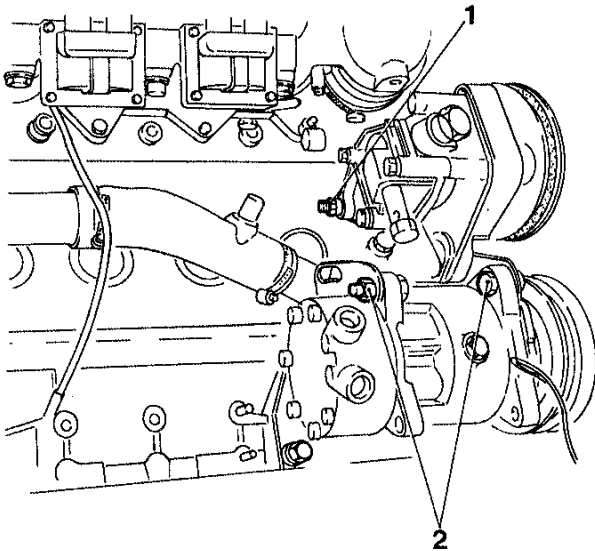
- Remove the front section of the exhaust system (see: PA4736B14x4000 / REPAIR INSTRUCTIONS - ENGINES - GR. 04 - REMOVING AND REFITTING THE EXHAUST PIPE).
- Remove the front crossmember and anti-roll bar (see: PA4655C1000000 / REPAIR INSTRUCTIONS - FRONT SUSPENSION - GR. 21 - REMOVING AND REFITTING FRONT CROSSMEMBER AND ANTI-ROLL BAR).

1. Disconnect the cable connecting the solenoid to the compressor.
2. Disconnect the two delivery and return hoses carrying Freon to and from the compressor.

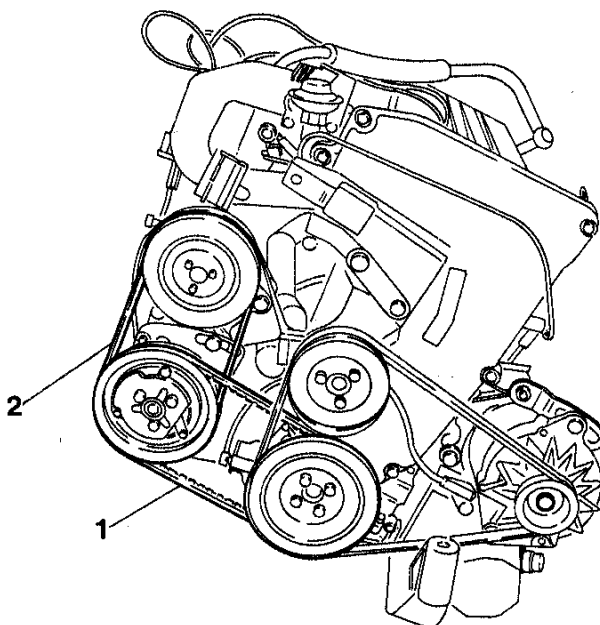




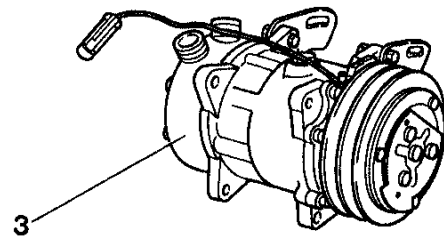
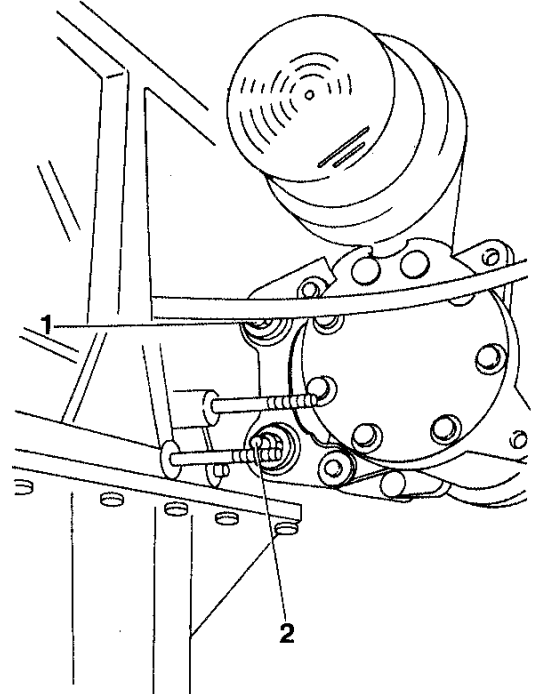
1. Loosen the nut securing the power steering.
2. Loosen the two upper screws securing the compressor.



1. Pull off the crankshaft pulley compressor drive belt.
2. Pull off the power steering-compressor drive belt.



1. Remove the two upper compressor retaining screws.
2. Remove the two lower compressor retaining screws.
3. Remove the complete compressor.



**Refitting**



To refit, reverse the procedure followed for removal.

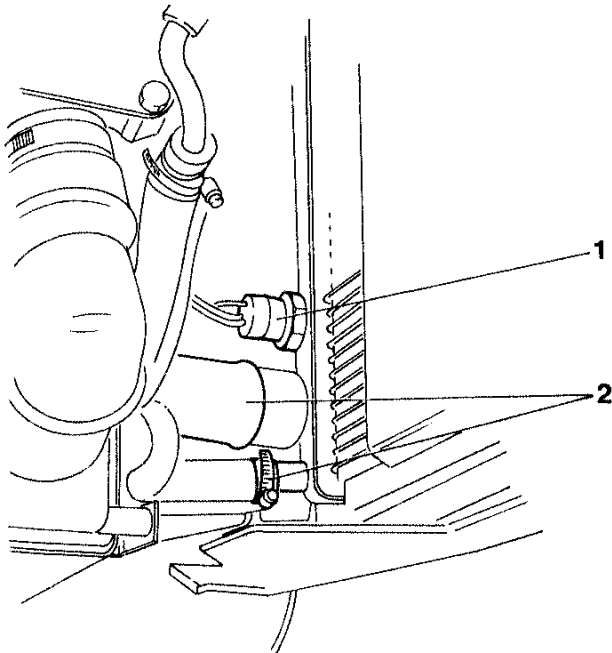
**Supplementary Indications regarding refitting**

- Tighten the nuts to the correct torque.

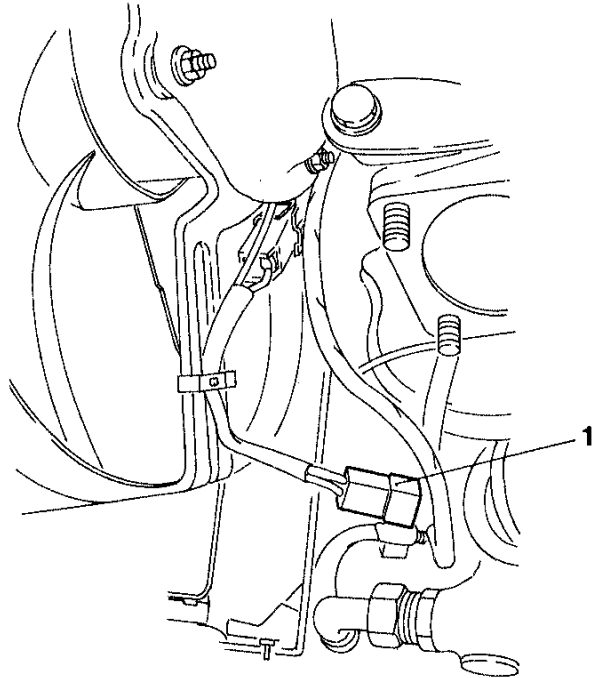
**CONDENSER****Removal**

- Drain off the engine coolant (see: PA4736B14x4000 - REPAIR INSTRUCTIONS - ENGINE COOLING / GR. 07 - DRAINING HYDRAULIC CIRCUIT).
- Detach the front grille and bumper (see: PA4655C1000000 / REPAIR INSTRUCTIONS - HEATING-VENTILATION - GR. 80 - REMOVING CONDENSER).

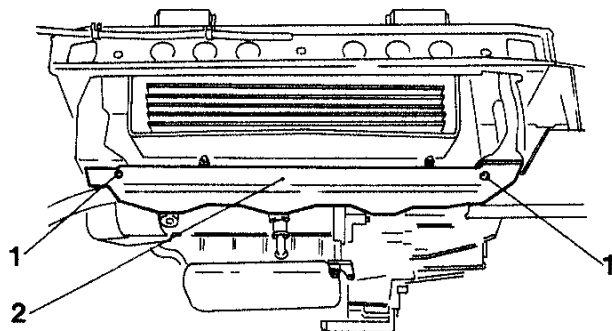
1. Disconnect the electrical connection from the engine coolant temperature sensor on the radiator.
2. Detach the water outlet hose from the radiator and the turbo- blower water hose.



1. Disconnect the electrical connection from the fan.

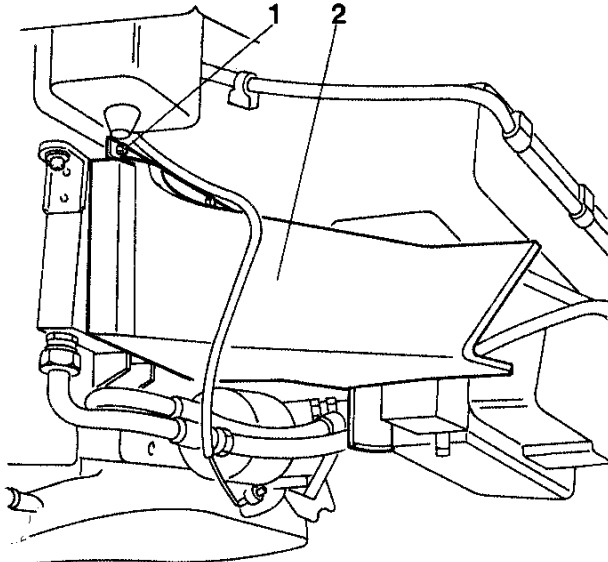


1. Loosen the screws securing the radiator support crossmember.
2. Remove the radiator support crossmember.

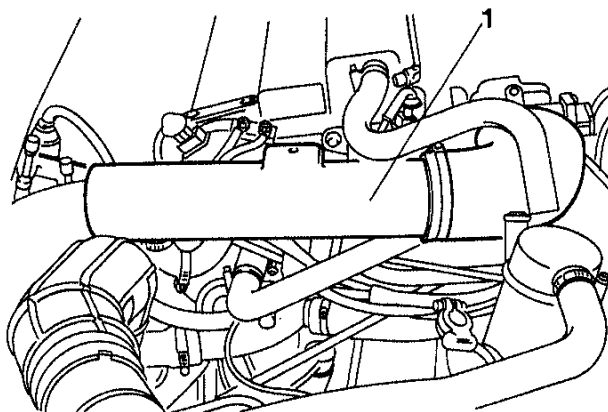




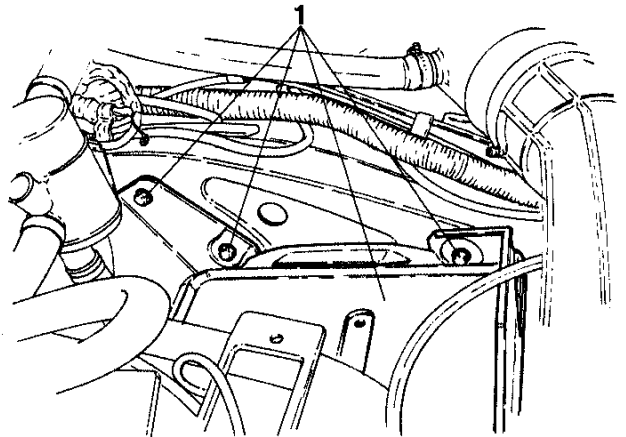
1. Loosen the screws securing the intercooler conveyor.
2. Remove the intercooler conveyor.



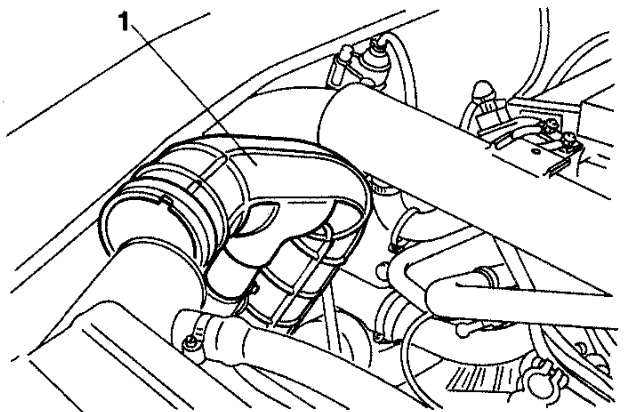
1. Detach the air duct from the engine air intake manifold.




1. Loosen the screws and remove the battery together with its support.

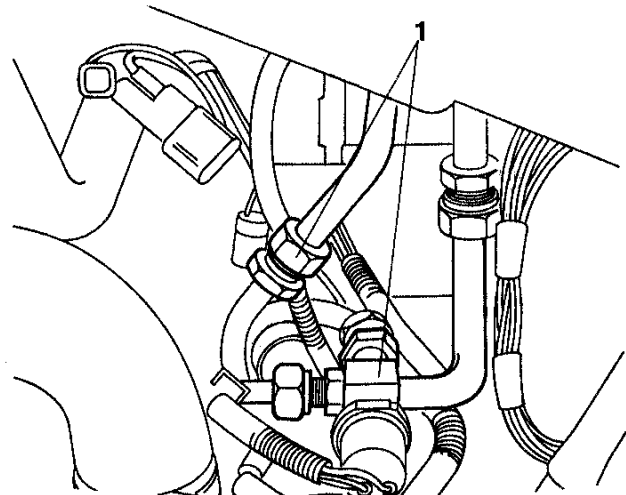


1. Detach the rubber air duct from the air cleaner.



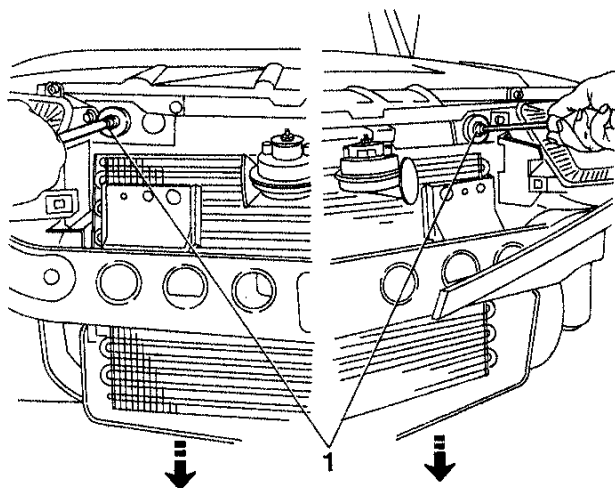
1. Detach the freon hose from the radiator and the engine coolant delivery hose from the radiator.

 19 + 23 Nm  
(1.9 + 2.3 kgm)

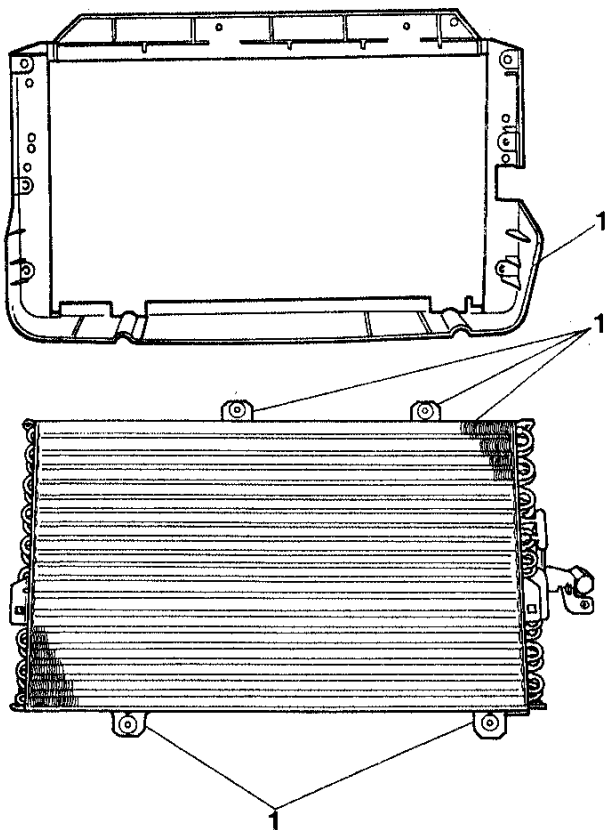




1. With the vehicle positioned on a lift, support the radiator and unscrew the two screws (complete with rubber washers) securing the upper radiator attachment to the chassis and withdraw the radiator from the lower part of the vehicle.



1. Unscrew the four retaining screws and separate the condenser from the conveyor.



**Refitting**



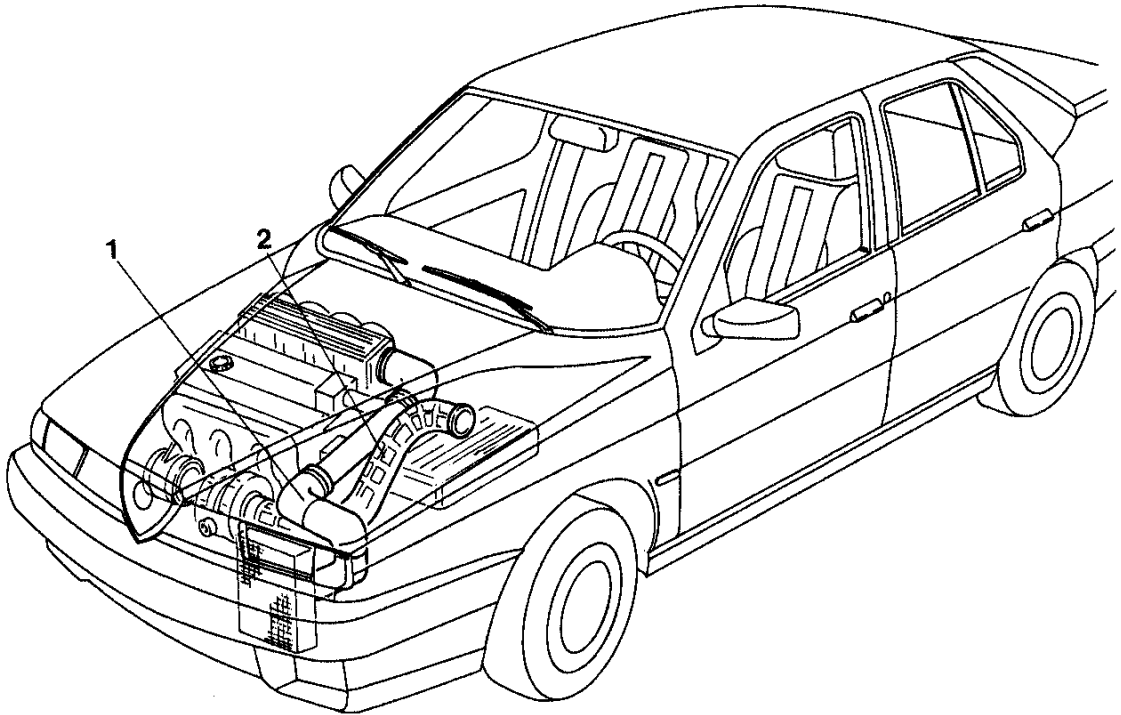
To refit, reverse the procedure followed for removal.

**Supplementary Indications regarding refitting**

- Tighten the unions to the correct torque.

**HEATING-VENTILATION SYSTEM HOSES****Removal**

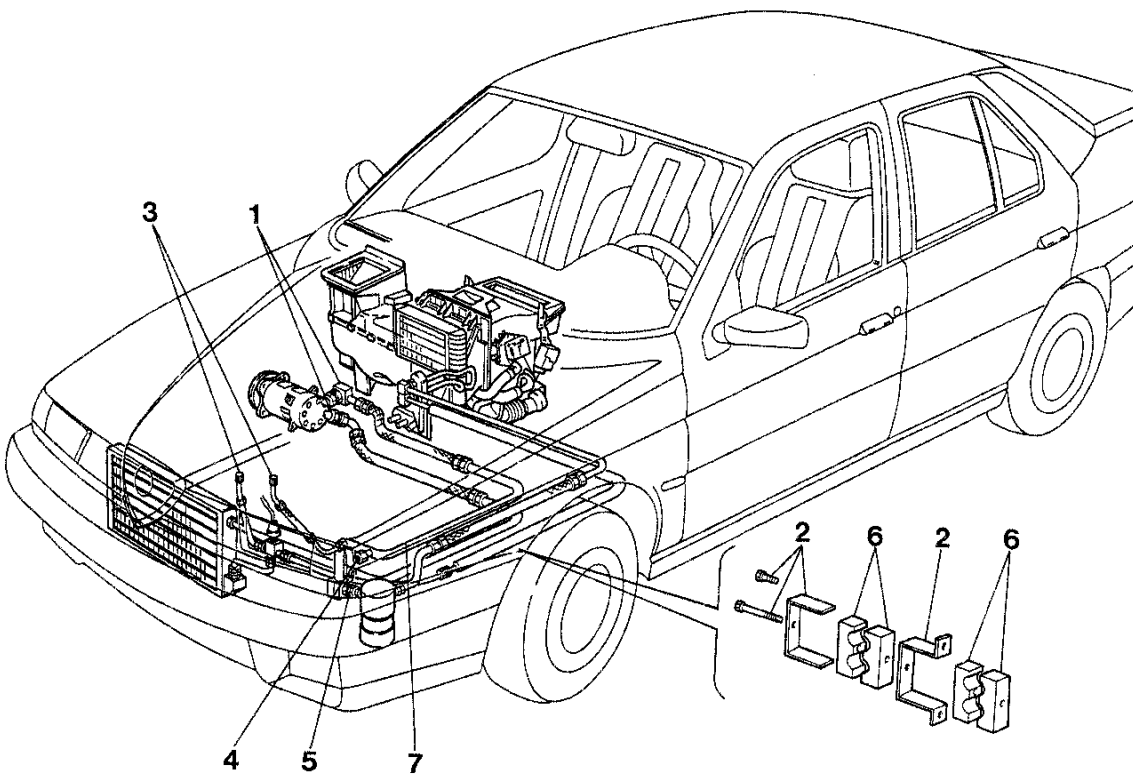
- In order to gain access to the freon delivery and return hoses, the following must first be removed.
  - Disconnect and remove the battery (see: PA4655C1000000 / REPAIR INSTRUCTIONS - ELECTRICAL SYSTEM - REMOVING AND REFITTING BATTERY).
1. Unscrew the strap and detach the intercooler air duct from the throttle body.
  2. Detach the hose connecting the air cleaner to the turboblower.
- Loosen the screws and remove the battery (see: PAR. CONDENSER).





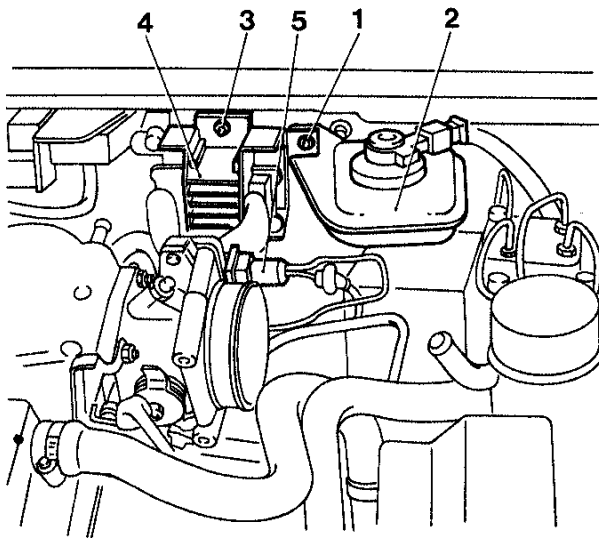


- Raise the vehicle on a lift and remove the front section of the exhaust manifold (see: PA4736B14x4000 / REPAIR INSTRUCTIONS - ENGINES - GR. 04 - REMOVING AND REFITTING EXHAUST PIPE).
1. Disconnect the compressor connections working from underneath the vehicle.
  2. Lower the vehicle and loosen the screws to remove the bracket.
  3. Free the pressure meter hose.
  4. Disconnect the pressure switch.
  5. Disconnect the dehydrator connection.
  6. Detach the rubber collars from the hoses.
  7. Detach the low pressure hose.



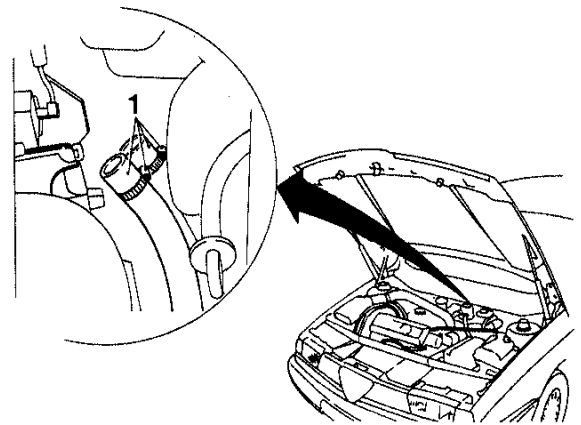


1. Loosen the screws securing the brake and clutch fluid reservoir.
2. Remove the reservoir.
3. Loosen the screws securing the power module and absolute pressure sensor bracket.
4. Remove the bracket.
5. Remove the potentiometer sensor from the throttle unit.



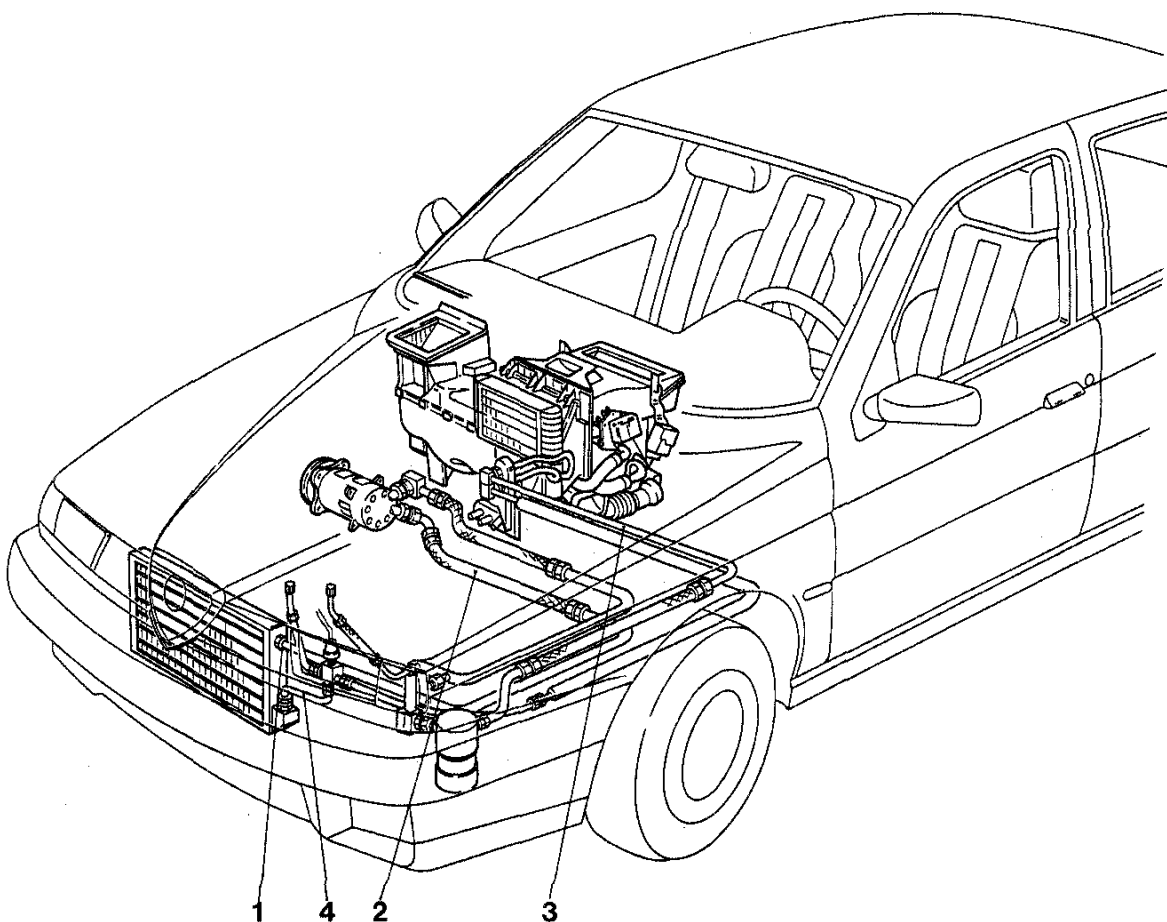
- Detach the vacuum hose from the servo brake (see: PA4655C1000000 / REPAIR INSTRUCTIONS - FRONT AND REAR BRAKES - GR. 22 - REMOVING AND REFITTING THE SERVO BRAKE).

1. Loosen the metal clamps securing the two rubber hoses carrying the engine coolant liquid to and from the heating radiator.





1. Disconnect the connection from the radiator.
2. Pull the high pressure hose out from below when the vehicle is raised on a lift.
3. Disconnect the connections from the evaporator-dehydrator hose connection and remove from below.
4. Disconnect the connections of the radiator-evaporator hose and remove from below.



**Refitting**



To refit, reverse the procedure followed for removal.